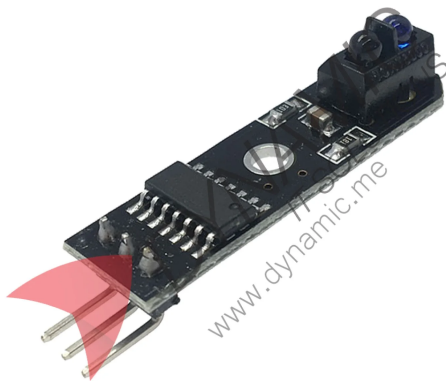


Infrared Line Tracking Sensor

TCRT5000 (3 pins)



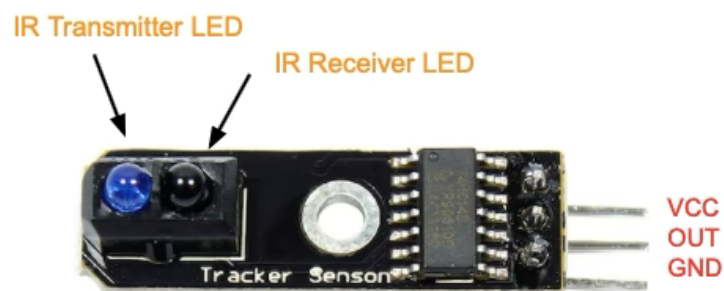
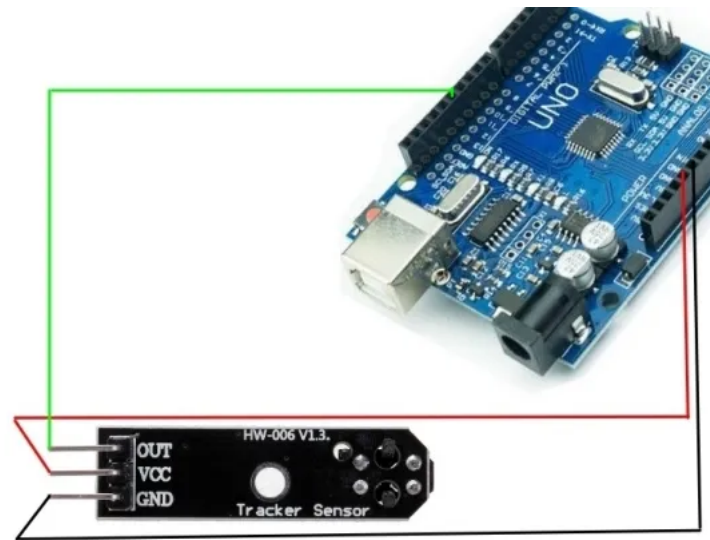
Features:

The TCRT5000 infrared line tracking sensor module detects reflected infrared light to identify lines or nearby obstacles. It integrates an IR LED and phototransistor pair and outputs a digital signal when an object or line reflects the emitted IR beam. Designed for indoor use, it performs best in low-interference environments. This version has fixed sensitivity, making it ideal for line-following robots and simple IR-based detection tasks.

Specifications	
Operating Voltage	3 V to 5 V DC
Operating Current	~20 mA
Detection Range	Up to 15 mm
Output Type	Digital (LOW when line detected, HIGH otherwise)
Viewing Angle	~35°
Sensitivity	Fixed (non-adjustable)
Module Dimensions	40 mm × 10 mm × 7 mm

Pinouts:

Pin Name	Type	Description
VCC	Power Input	Supply voltage input (3V to 5V DC)
GND	Power Ground	Common ground reference
OUT	Digital Output	Outputs LOW when infrared reflection is detected



Product Pictures:

